

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain in active parturition phase in pregnant women that refer to Dezyani Hospital on 2010

Protocol summary

Summary

The aim of this study is evaluation the effect of transcutaneous electrical nerve stimulation for decrease of labor pain. This clinical trial was done on one hundred forty four (144) pregnant women in active phase of parturition that refer to Dezyani hospital that based on inclusion criteria: Primiparous, single term pregnancy, cephalic presentation, 3-5 cm dilatation, maternal age between 20-40 years and exclusion criteria: maternal cutaneous on the application site such as wound scar, pacemaker. The samples were collected after filling the questionnaire and recording the demographic at random. The severity of labor pain was evaluated with visual analogue scale (VAS) in the TENS, TENS placebo and control groups immediately after intervention, 30 minute after intervention and 60 minute after intervention. This examination was done in 5-6 cm and 8-9 cm dilatation and was analyzed statistically.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201205059642N1**
Registration date: **2012-10-31, 1391/08/10**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-10-31, 1391/08/10

Registrant information

Name

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Name of organization / entity

Golestan University Of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Golestan University Of Medical Sciences

Expected recruitment start date

2010-09-23, 1389/07/01

Expected recruitment end date

2011-03-16, 1389/12/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain in active parturition phase in pregnant women that refer to Dezyani Hospital on 2010

Public title

The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: primiparous; term pregnancy; cephalic presentation; at active phase of the first stage of labor with cervical dilatation 3-5 cm; age between 20-40 years- exclusion criteria: maternal cutaneous on the application site such as wound scar; pacemaker user

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **144**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Golestan University Of Medical Sciences

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Shast kolah Road, Golestan University Of Medical Sciences -Gorgan

City

Gorgan

Postal code**Approval date**

2010-08-29, 1389/06/07

Ethics committee reference number

1465

Health conditions studied**1****Description of health condition studied**

labor pain in active parturition phase

ICD-10 code

O80.9

ICD-10 code description

delivery(single)normal

Primary outcomes**1****Description**

labor pain in active phase

Timepoint

Measurement of pain, right after intervention, 30 minutes, 60 minutes after intervention

Method of measurement

visual analogue scale

Secondary outcomes

empty

Intervention groups**1****Description**

Trial group: used the Tens on back (L1-T10)

Category

Treatment - Other

2**Description**

Tens placebo group: group received no electrical stimulation

Category

Placebo

3**Description**

control group: no Intervention

Category

Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Dezyani Hospital

Full name of responsible person

Mersede kia

Street address

Beheshti Street, Dezyani Hospital, Gorgan

City

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Golestan University Of Medical Sciences

Full name of responsible person

Dr.Arabi

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Beheshti Street, Dezyani Hospital, Gorgan

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Grant name

Grant code / Reference number
Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source
Golestan University Of Medical Sciences
Proportion provided by this source

100

Public or private sector
empty

Domestic or foreign origin
empty

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
empty

Person responsible for general inquiries

Contact

Name of organization / entity
Golestan University Of Medical Sciences

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Mersedeh Kia

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty

Study Protocol
empty

Statistical Analysis Plan
empty

Informed Consent Form
empty

Clinical Study Report
empty

Analytic Code
empty

Data Dictionary
empty